	Application No.	Applicant(s)
Notice of Allowability	00/008 034	VAN DER TANC ET AL
	09/998,034 Examiner	VAN DER TANG ET AL. Art Unit
	Joseph Chang	2947
	Joseph Chang	2817
The MAILING DATE of this communication appears on the cover sheet with the correspondence address All claims being allowable, PROSECUTION ON THE MERITS IS (OR REMAINS) CLOSED in this application. If not included herewith (or previously mailed), a Notice of Allowance (PTOL-85) or other appropriate communication will be mailed in due course. THIS NOTICE OF ALLOWABILITY IS NOT A GRANT OF PATENT RIGHTS. This application is subject to withdrawal from issue at the initiative of the Office or upon petition by the applicant. See 37 CFR 1.313 and MPEP 1308.		
1. This communication is responsive to the amendment of 7/28/04 and Examiner's Amendment.		
2. The allowed claim(s) is/are <u>1-3 and 5-20</u> .		
3. The drawings filed on 29 November 2001 are accepted by the Examiner.		
 4. Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f). a) All b) Some* c) None of the: Certified copies of the priority documents have been received. Certified copies of the priority documents have been received in Application No Copies of the certified copies of the priority documents have been received in this national stage application from the International Bureau (PCT Rule 17.2(a)). * Certified copies not received: 		
Applicant has THREE MONTHS FROM THE "MAILING DATE" of this communication to file a reply complying with the requirements noted below. Failure to timely comply will result in ABANDONMENT of this application. THIS THREE-MONTH PERIOD IS NOT EXTENDABLE.		
5. A SUBSTITUTE OATH OR DECLARATION must be submitted. Note the attached EXAMINER'S AMENDMENT or NOTICE OF INFORMAL PATENT APPLICATION (PTO-152) which gives reason(s) why the oath or declaration is deficient.		
6. CORRECTED DRAWINGS (as "replacement sheets") must be submitted.		
(a) ☐ including changes required by the Notice of Draftsperson's Patent Drawing Review (PTO-948) attached		
1) 🔲 hereto or 2) 🔲 to Paper No./Mail Date		
(b) ☐ including changes required by the attached Examiner's Amendment / Comment or in the Office action of Paper No./Mail Date		
Identifying indicia such as the application number (see 37 CFR 1.84(c)) should be written on the drawings in the front (not the back) of each sheet. Replacement sheet(s) should be labeled as such in the header according to 37 CFR 1.121(d).		
7. DEPOSIT OF and/or INFORMATION about the deposit of BIOLOGICAL MATERIAL must be submitted. Note the attached Examiner's comment regarding REQUIREMENT FOR THE DEPOSIT OF BIOLOGICAL MATERIAL.		
Attachment(s) 1. ☑ Notice of References Cited (PTO-892) 2. ☐ Notice of Draftperson's Patent Drawing Review (PTO-948) 3. ☐ Information Disclosure Statements (PTO-1449 or PTO/SB/0 Paper No./Mail Date	6. ⊠ Interview Summary Paper No./Mail Da 8), 7. ⊠ Examiner's Amendi	te <u>20041015</u> .

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DETAILED ACTION

Applicant's request for reconsideration of the finality of the rejection of the last Office action is persuasive and, therefore, the finality of that action is withdrawn.

EXAMINER'S AMENDMENT

An examiner's amendment to the record appears below. Should the changes and/or additions be unacceptable to applicant, an amendment may be filed as provided by 37 CFR 1.312. To ensure consideration of such an amendment, it MUST be submitted no later than the payment of the issue fee.

Authorization for this examiner's amendment was given in a telephone interview with Michael J. Ure on 10/14/04.

The application has been amended as follows: Claim 4 has been canceled and Claim 12 is in independent form including all of the limitations of the base claim 4, and Claim 15 is also in independent form including all of the limitations of the base claim 4.

4 (Canceled)

12 (Currently Amended) A voltage-to-current converter for use in a multiphase LC oscillator, characterized in that the voltage-to-current converter comprises compensation means to compensate for a phase shift, wherein the voltage-to-current converter further comprises at least two amplifiers in series and an integrator coupled between the amplifiers.

15 (Currently Amended) A voltage-to-current converter for use in a multiphase LC oscillator, characterized in that the voltage-to-current converter comprises compensation means to compensate for a phase shift, wherein the voltage-to-current converter further comprises at least two amplifiers in series and an differentiator coupled between the amplifiers.

Abstract has been amended as follow:

A multiphase LC oscillator is proposed which belongs to the so-called class, which delivers correct-by-construction I/Q signals. Unlike state of the art I/Q LC oscillators, the proposed invention oscillator at the point where the quality factor of the resonator is maximum. Hence the new multiphase LC oscillator provides also maximum carrier to noise ratio correct by construction given a certain resonator. This is realized by implementing the V/I converter which couple the N LC oscillators, with an exact 180/N degree phase shift.

The following is an examiner's statement of reasons for allowance: the best prior art of record, Chung-Yu Wu, taken alone or in combination of other references, does not teach or fairly suggest a voltage-to-current converter with a phase shift of 180/N.

Any comments considered necessary by applicant must be submitted no later than the payment of the issue fee and, to avoid processing delays, should preferably

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accompany the issue fee. Such submissions should be clearly labeled "Comments on Statement of Reasons for Allowance."

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Joseph Chang whose telephone number is 571 272-1759. The examiner can normally be reached on Mon-Fri 0700-1730.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Robert Pascal can be reached on (571) 272-1769. The fax phone number for the organization where this application or proceeding is assigned is 703-872-9306.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

JC -

BENNYT. LEE PRIMARY EXAMINER ART UNIT 2817